

Serial Number: 09/242,202A

**ENTERED**

**RECEIVED**

**AUG 21 2001**

TECH CENTER 1800/2900

412  
8-23-01  
P.2

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was wrapped down to the next line
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number of the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: Seq 20 - corrected amino acid nos.

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001

TIME: 13:46:23

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08162001\I242202A.raw

## SEQUENCE LISTING

```

4 (1) GENERAL INFORMATION:
6   (i) APPLICANT: Nelson, Edward L.
7       Nelson, Peter J.
9   (ii) TITLE OF INVENTION: NOVEL VECTOR FOR
10       POLYNUCLEOTIDE VACCINES
12   (iii) NUMBER OF SEQUENCES: 29
14   (iv) CORRESPONDENCE ADDRESS:
15       (A) ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
16       (B) STREET: 345 PARK AVENUE
17       (C) CITY: NEW YORK
18       (D) STATE: NEW YORK
19       (E) COUNTRY: USA
20       (F) ZIP: 10154
22   (v) COMPUTER READABLE FORM:
23       (A) MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB
24       (B) COMPUTER: IBM PC COMPATIBLE
25       (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26       (D) SOFTWARE: MS WORD 97
29   (vi) CURRENT APPLICATION DATA:
C--> 30       (A) APPLICATION NUMBER: US/09/242,202A
C--> 31       (B) FILING DATE: 20-Apr-2000
33   (vii) PRIOR APPLICATION DATA:
34       (A) APPLICATION NUMBER: US60/023931
35       (B) FILING DATE: 14-AUG-1996
37   (viii) ATTORNEY/AGENT INFORMATION:
38       (A) NAME: KATHRYN M. BROWN
39       (B) REGISTRATION NUMBER: 34556
40       (C) REFERENCE/DOCKET NUMBER: 2026-4236US1
42   (ix) TELECOMMUNICATION INFORMATION:
43       (A) TELEPHONE: (212) 758-4800
44       (B) TELEFAX: (212) 751-6849
45       (C) TELEX: 421792
47 (2) INFORMATION FOR SEQ ID NO: 1:
49   (i) SEQUENCE CHARACTERISTICS:
50       (A) LENGTH: 453 base pairs
51       (B) TYPE: nucleic acid
52       (C) STRANDEDNESS: single
53       (D) TOPOLOGY: unknown
60   (ii) MOLECULE TYPE: cDNA
69   (iii) HYPOTHETICAL: No
71   (iv) ANTI-SENSE: No
C--> 73   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
75   GGCCGCGTTG CTGGCGTTTT TCCATAGGCT CCGCCCCCTT      40
76   GACGAGCATC ACAAAAATCG ACGCTCAAGT CAGAGGTGGC      80
77   GAAACCCGAC AGGACTATAA AGATACCAGG CGTTTCCCCC     120
78   TGGAAGCTCC CTCGTGCGCT CTCCTGTTCC GACCCTGCCC     160

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/242,202A

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TIME: 13:46:23

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08162001\I242202A.raw

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79 CTTACCGGAT ACCTCTCCGC CTTTCTCCCT TCGGGAAGCG      200
80 TGGCGCTTTC TCAATGCTCA CGCTGTAGGT ATCTCAGTTC      240
81 GGTGTAGGTC GTTCGCTCCA AGCTGGGCTG TGTGCACGAA      280
82 CCCCCCGTTC AGCCCGACCG CTGCGCCTTA TCCGGTAACT      320
83 ATCGTCTTGA GTCCAACCCG GTAAGACACG ACTTATCGCC      360
84 ACTGGCAGCA GCCACTGGTA ACAGGATTAG CAGAGCGAGG      400
85 TATGTAGGCG GTGCTACAGA GTTCTTGAAG TGGTGGCCTA      440
86 ACTACGGCTA CAC                                     453

```

89 (2) INFORMATION FOR SEQ ID NO: 2:

91 (i) SEQUENCE CHARACTERISTICS:

92 (A) LENGTH: 453 base pairs

93 (B) TYPE: nucleic acid

95 (C) STRANDEDNESS: single

96 (D) TOPOLOGY: unknown

98 (ii) MOLECULE TYPE: cDNA

100 (iii) HYPOTHETICAL: No

102 (iv) ANTI-SENSE: No

C--&gt; 104 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```

106 GTGTAGCCGT AGTTAGGCCA CCACTTCAAG AACTCTGTAG      40
107 CACCGCCTAC ATACCTCGCT CTGCTAATCC TGTTACCAGT      80
108 GGCTGCTGCC AGTGGCGATA AGTCGTGTCT TACCGGGTTG     120
109 GACTCAAGAC GATAGTTACC GGATAAGGCG CAGCGGTCGG     160
110 GCTGAACGGG GGGTTCGTGC ACACAGCCCA GCTTGGAGCG     200
111 AACGACCTAC ACCGAACTGA GATACCTACA CCGTGAGCAT     240
112 TGAGAAAGCG CCACGCTTCC CGAAGGGAGA AAGGCGGACA     280
113 GGTATCCGGT AAGCGGCAGG GTCGGAACAG GAGAGCGCAC     320
114 GAGGGAGCTT CCAGGGGGAA ACGCCTGGTA TCTTTATAGT     360
115 CCTGTCGGGT TTCGCCACCT CTGACTTGAG CGTCGATTTT     400
116 TGTGATGCTC GTCAGGGGGG CGGAGCCTAT GGAAAAACGG     440
117 CAGCAACGCG GCC                                     453

```

125 (2) INFORMATION FOR SEQ ID NO: 3:

127 (i) SEQUENCE CHARACTERISTICS:

128 (A) LENGTH: 209 base pairs

135 (B) TYPE: nucleic acid

136 (C) STRANDEDNESS: single

137 (D) TOPOLOGY: unknown

139 (ii) MOLECULE TYPE: cDNA

141 (iii) HYPOTHETICAL: No

143 (iv) ANTI-SENSE: No

C--&gt; 145 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

```

147 GAATTCTTTC GGACTTTTGA AAGTGATGGT GGTGGCCGAA      40
148 GGATTGGAAC CTTCGAAGTC GATGACGGCA GATTTAGAGT      80
149 CTGCTCCCTT TGGCCGCTCG GGAACCCAC CACGGGTAAT     120
150 GCTTTTACTG GCCTGCTCCC TTATCGGGAA GCGGGGCGCA     160
151 TCATATCAAA TGACGCGCCG CTGTAAAGTG TTACGTTGAG     200
152 AAAGAATTC                                     209

```

155 (2) INFORMATION FOR SEQ ID NO: 4:

157 (i) SEQUENCE CHARACTERISTICS:

158 (A) LENGTH: 209 base pairs

## RAW SEQUENCE LISTING

DATE: 08/16/2001

PATENT APPLICATION: US/09/242,202A

TIME: 13:46:23

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08162001\I242202A.raw

```

160          (B) TYPE: nucleic acid
161          (C) STRANDEDNESS: single
162          (D) TOPOLOGY: unknown
164      (ii) MOLECULE TYPE: cDNA
166      (iii) HYPOTHETICAL: No
168      (iv) ANTI-SENSE: No
C--> 170      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
172 GAATTCCTTC TCAACGTAAC ACTTTACAGC GGCGCGTCAT      40
173 TTGATATGAT GCGCCCCGCT TCCCGATAAG GGAGCAGGCC      80
174 AGTAAAAGCA TTACCCGTGG TGGGGTTCCC GAGCGGCCAA      120
175 AGGGAGCAGA CTCTAAATCT GCCGTCATCG ACTTCGAAGG      160
176 TTCGAATCCT TCCCCACCA CCATCACTT CAAAAGTCCG      200
177 AAAGAATTC      209
180 (2) INFORMATION FOR SEQ ID NO: 5:
182      (i) SEQUENCE CHARACTERISTICS:
183          (A) LENGTH: 6 base pairs
184          (B) TYPE: nucleic acid
185          (C) STRANDEDNESS: single
186          (D) TOPOLOGY: unknown
193      (ii) MOLECULE TYPE: cDNA
199      (iii) HYPOTHETICAL: No
C--> 201      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
204 AATAAA      6
207 (2) INFORMATION FOR SEQ ID NO: 6:
209      (i) SEQUENCE CHARACTERISTICS:
210          (A) LENGTH: 6 base pairs
211          (B) TYPE: nucleic acid
212          (C) STRANDEDNESS: single
213          (D) TOPOLOGY: unknown
215      (ii) MOLECULE TYPE: cDNA
217      (iii) HYPOTHETICAL: No
219      (iv) ANTI-SENSE: No
C--> 221      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
225 ATTAAA      6
228 (2) INFORMATION FOR SEQ ID NO: 7:
230      (i) SEQUENCE CHARACTERISTICS:
231          (A) LENGTH: 6 base pairs
232          (B) TYPE: nucleic acid
233          (C) STRANDEDNESS: single
234          (D) TOPOLOGY: unknown
236      (ii) MOLECULE TYPE: cDNA
238      (iii) HYPOTHETICAL: No
C--> 240      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
243 AGTAAA      6
246 (2) INFORMATION FOR SEQ ID NO: 8:
248      (i) SEQUENCE CHARACTERISTICS:
249          (A) LENGTH: 6 base pairs
250          (B) TYPE: nucleic acid
251          (C) STRANDEDNESS: single

```

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001  
TIME: 13:46:23

Input Set : A:\Pto.amc  
Output Set : N:\CRF3\08162001\I242202A.raw

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252          (D) TOPOLOGY: unknown
259      (ii) MOLECULE TYPE: cDNA
265      (iii) HYPOTHETICAL: No
C--> 267      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
270 AAGAAC
273 (2) INFORMATION FOR SEQ ID NO: 9:
275      (i) SEQUENCE CHARACTERISTICS:
276          (A) LENGTH: 6 base pairs
277          (B) TYPE: nucleic acid
278          (C) STRANDEDNESS: single
279          (D) TOPOLOGY: unknown
281      (ii) MOLECULE TYPE: cDNA
283      (iii) HYPOTHETICAL: No
285      (iv) ANTI-SENSE: No
C--> 287      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
290 AATACA
293 (2) INFORMATION FOR SEQ ID NO: 10:
295      (i) SEQUENCE CHARACTERISTICS:
296          (A) LENGTH: 227 base pairs
297          (B) TYPE: nucleic acid
298          (C) STRANDEDNESS: single
299          (D) TOPOLOGY: unknown
301      (ii) MOLECULE TYPE: cDNA
303      (iii) HYPOTHETICAL: No
305      (iv) ANTI-SENSE: No
C--> 307      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
310 GCCTTAAGGG CCATATGGTG AGTGGATCCC TTGACCCCAG
311 GCGGGGATGG GGAGACCTGT AGTCAGAGCC CCCGGGCAGC
312 ACAGGCCAAT GCCCGTCCTT CCCCTGCAGG ATGAGTAGTG
313 AGTGCCTCTC CTGGCCCTGG AAGTTGCCAC TCCAGTGCCC
314 ACCAGCCTTG TCCTAATAAA ATTAAGTTGC ATCATTTTGT
315 CTGACTAGGT GTCCTCTATA ATATTAT
318 (2) INFORMATION FOR SEQ ID NO: 11:
325      (i) SEQUENCE CHARACTERISTICS:
326          (A) LENGTH: 227 base pairs
327          (B) TYPE: nucleic acid
334          (C) STRANDEDNESS: single
335          (D) TOPOLOGY: unknown
337      (ii) MOLECULE TYPE: cDNA
339      (iii) HYPOTHETICAL: No
341      (iv) ANTI-SENSE: No
C--> 343      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
346 ATAATATTAT AGAGGACAAC TAGTCAGAAC AAATGATGCA
347 ACTTAATTTT ATTAGGACAA GGCTGGTGGG CACTGGAGTG
348 GCAACTTCCA GGGCCAGGAG AGGCACTCAC TACTCATCCT
349 GCAGGGGAAG GACGGGCATT GGCTGTGCT GCGGGGGG
350 TCTGACTACA GGTCTCCCCC ATCCCCGCCT GGGGTCAAGG
351 CATCCACTCA CCATATGGCC CTTAAGG
354 (2) INFORMATION FOR SEQ ID NO: 12:

```

6

6

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160

200

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227

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001

TIME: 13:46:23

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08162001\I242202A.raw

```

356      (i) SEQUENCE CHARACTERISTICS:
357          (A) LENGTH: 252 base pairs
358          (B) TYPE: nucleic acid
359          (C) STRANDEDNESS: single
360          (D) TOPOLOGY: unknown
362      (ii) MOLECULE TYPE: cDNA
364      (iii) HYPOTHETICAL: No
366      (iv) ANTI-SENSE: No
C--> 368      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:                                40
371 CCTCGGTACC TGCCATGGCG CGGATTCTTT ATCACTGATA                                80
372 AGTTGGTGGA CATATTATGT TTATCAGTGA TAAAGTGTCA                                120
373 AGCATGACAA AGTTGCAGCC GAATACAGTG ATCCGTGCCG                                160
374 GCCCTGGACT GTTGAACGAG GTCGGCGTAG ACGGTCTGAC                                200
375 GACACGCAA CTGGCGGAAC GGTGCGGGT GCAGCAGCCG                                240
376 GCGCTTTACT GGCACCTCAG GAACAAGCGG GCGCCTTAAG                                252
377 GGCCATATGC CG
380 (2) INFORMATION FOR SEQ ID NO: 13:
382      (i) SEQUENCE CHARACTERISTICS:
383          (A) LENGTH: 35 base pairs
384          (B) TYPE: nucleic acid
385          (C) STRANDEDNESS: single
386          (D) TOPOLOGY: unknown
387      (ii) MOLECULE TYPE: cDNA
388      (iii) HYPOTHETICAL: No
389      (iv) ANTI-SENSE: No
C--> 407      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:                                35
410 CCTCGGTACC TGCCACCATG GCGCGGATTC TTTAT
413 (2) INFORMATION FOR SEQ ID NO: 14:
415      (i) SEQUENCE CHARACTERISTICS:
416          (A) LENGTH: 38 base pairs
417          (B) TYPE: nucleic acid
418          (C) STRANDEDNESS: single
419          (D) TOPOLOGY: unknown
420      (ii) MOLECULE TYPE: cDNA
421      (iii) HYPOTHETICAL: No
422      (iv) ANTI-SENSE: No
C--> 427      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:                                38
430 CGGCATATGG CCTTAAGGCG CCCGCTTGTT CCTGAAGT
433 (2) INFORMATION FOR SEQ ID NO: 15:
435      (i) SEQUENCE CHARACTERISTICS:
436          (A) LENGTH: 228 base pairs
437          (B) TYPE: nucleic acid
438          (C) STRANDEDNESS: single
439          (D) TOPOLOGY: unknown
440      (ii) MOLECULE TYPE: cDNA
441      (iii) HYPOTHETICAL: No
442      (iv) ANTI-SENSE: No
C--> 447      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:                                40
449 GCCTTAAGGG CCATATGGTG AGTGGATGCC TTGACCCAG

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001  
TIME: 13:46:24

Input Set : A:\Pto.amc  
Output Set: N:\CRF3\08162001\I242202A.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:73 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:104 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:145 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:170 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:201 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:221 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:240 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:267 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:287 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:307 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:343 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:368 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:407 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:427 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:447 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:482 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:548 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:590 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:664 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:691 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:757 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:786 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:870 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:864 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23  
L:890 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:884 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24  
L:920 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:982 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1017 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1086 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1164 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001

TIME: 12:37:51

Input Set : A:\20264236.app

Output Set: N:\CRF3\08162001\I242202A.raw

## SEQUENCE LISTING

Does Not Comply  
Corrected Diskette Needed

## 10 (1) GENERAL INFORMATION:

12 (i) APPLICANT: Nelson, Edward L.

13 Nelson, Peter J.

15 (ii) TITLE OF INVENTION: NOVEL VECTOR FOR  
16 POLYNUCLEOTIDE VACCINES

18 (iii) NUMBER OF SEQUENCES: 29

20 (iv) CORRESPONDENCE ADDRESS:

21 (A) ADDRESSEE: MORGAN &amp; FINNEGAN, L.L.P.

22 (B) STREET: 345 PARK AVENUE

23 (C) CITY: NEW YORK

24 (D) STATE: NEW YORK

25 (E) COUNTRY: USA

26 (F) ZIP: 10154

28 (v) COMPUTER READABLE FORM:

29 (A) MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB

30 (B) COMPUTER: IBM PC COMPATIBLE

31 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

32 (D) SOFTWARE: MS WORD 97

35 (vi) CURRENT APPLICATION DATA:

C--&gt; 36 (A) APPLICATION NUMBER: US/09/242,202A

C--&gt; 37 (B) FILING DATE: 20-Apr-2000

39 (vii) PRIOR APPLICATION DATA:

40 (A) APPLICATION NUMBER: US60/023931

41 (B) FILING DATE: 14-AUG-1996

43 (viii) ATTORNEY/AGENT INFORMATION:

44 (A) NAME: KATHRYN M. BROWN

45 (B) REGISTRATION NUMBER: 34556

46 (C) REFERENCE/DOCKET NUMBER: 2026-4236US1

48 (ix) TELECOMMUNICATION INFORMATION:

49 (A) TELEPHONE: (212) 758-4800

50 (B) TELEFAX: (212) 751-6849

51 (C) TELEX: 421792

## ERRORED SEQUENCES

688 (2) INFORMATION FOR SEQ ID NO: 20:

690 (i) SEQUENCE CHARACTERISTICS:

691 (A) LENGTH: 287 amino acids

692 (B) TYPE: amino acid

693 (D) TOPOLOGY: unknown

695 (ii) MOLECULE TYPE: protein

C--&gt; 697 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

700 Pro Ala Pro Gly Gly Met Val His His Arg

701 1 5 10

702 His Arg Ser Ser Ser Thr Arg Ser Gly Gly Gly Asp



RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001  
 TIME: 12:37:51

Input Set : A:\20264236.app  
 Output Set: N:\CRF3\08162001\I242202A.raw

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703          15          20
704 Leu Thr Leu Gly Leu Glu Pro Ser Glu Glu Glu Ala
705 25          30          35
706 Pro Arg Ser Pro Leu Ala Pro Ser Glu Gly Ala Gly
707          40          45
708 Ser Asp Val Phe Asp Gly Asp Leu Gly Met Gly Ala
709 50          55          60
710 Ala Lys Gly Leu Ser Leu Pro Thr His Asp Pro Ser
711          65          70
712 Pro Leu Gln Arg Tyr Ser Glu Asp Pro Thr Val Pro
713 75          80
714 Leu Pro Ser Glu Thr Asp Gly Tyr Val Ala Pro Leu
715 85          90          95
717 Thr Cys Ser Pro Gln Pro Glu Tyr Val Asn Gln Pro
718 100          105
719 Asp Val Arg Pro Pro Pro Ser Pro Arg Glu Gly Pro
720 110          115          120
727 Leu Pro Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu
728 125          130
729 Arg Pro Lys Thr Leu Ser Pro Gly Lys Asn Gly Val
730 135          140
737 Val Lys Asp Val Phe Ala Phe Gly Gly Ala Val Glu
738 145          150          155
739 Asn Pro Glu Tyr Leu Thr Pro Gln Gly Thr Cys Ser
740 160          165
741 Pro Gln Pro Glu Tyr Val Asn Gln Pro Asp Val Arg
742 170          175          180
743 Pro Gln Pro Pro Ser Pro Arg Glu Gly Pro Leu Pro
744 185          190
745 Ala Ala Arg Pro Ala Gly Ala Thr Leu Glu Arg Pro
746 195          200
747 Lys Leu Ser Pro Gly Lys Asn Gly Val Val Lys Asp
748 205          210          215
749 Val Phe Ala Phe Gly Gly Ala Val Glu Asn Pro Glu
750 220          225
751 Tyr Leu Thr Pro Gln Gly Gly Ala Ala Pro Gln Pro
752 230          235          240
753 His Pro Pro Pro Ala Phe Ser Pro Ala Phe Asp Asn
754 245          250
755 Leu Tyr Tyr Trp Asp Asp Pro Pro Glu Arg Gly Ala
756 255          260
757 Pro Pro Ser Thr Phe Lys Gly Thr Pro Thr Ala Glu
E--> 758 265 270          275
759 Asn Pro Glu Tyr Leu Gly Leu Asp Val Pro Val
760          280          285

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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/242,202A

DATE: 08/16/2001  
TIME: 12:37:52

Input Set : A:\20264236.app  
Output Set: N:\CRF3\08162001\I242202A.raw

L:36 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:37 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:79 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:110 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:151 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:176 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:207 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:227 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:246 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:273 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:293 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:313 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:349 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:374 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:413 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:433 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:453 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:488 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:554 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:596 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:670 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:697 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:758 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:20  
L:772 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:801 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:885 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:879 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23  
L:905 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:899 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24  
L:935 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:997 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1032 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1101 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:1179 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]